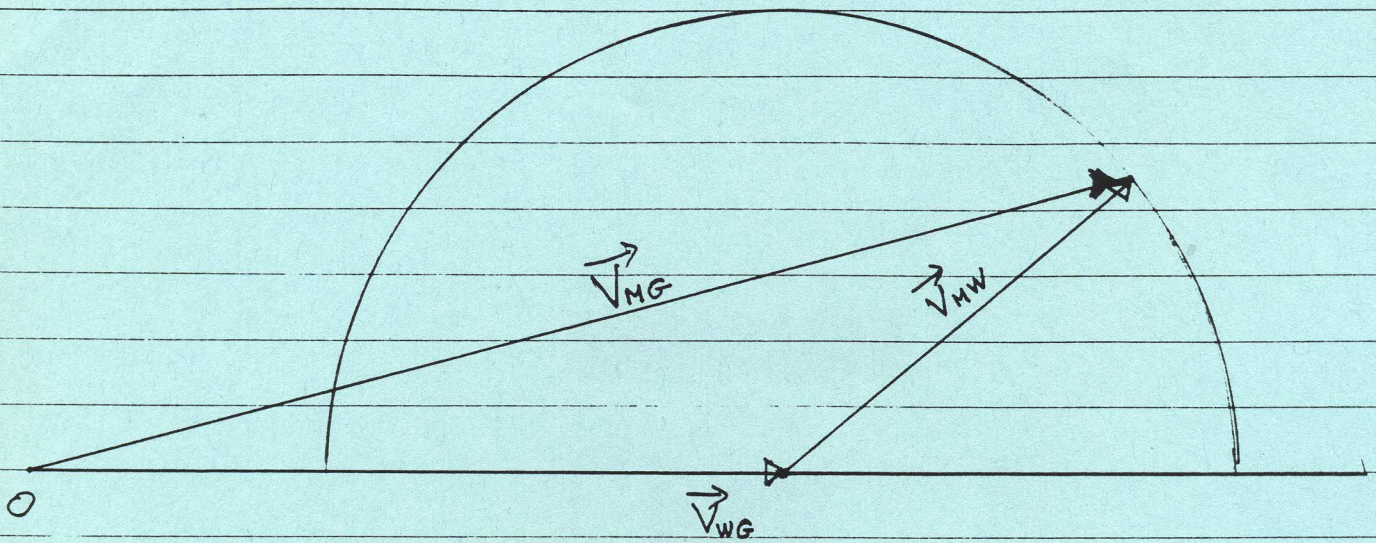
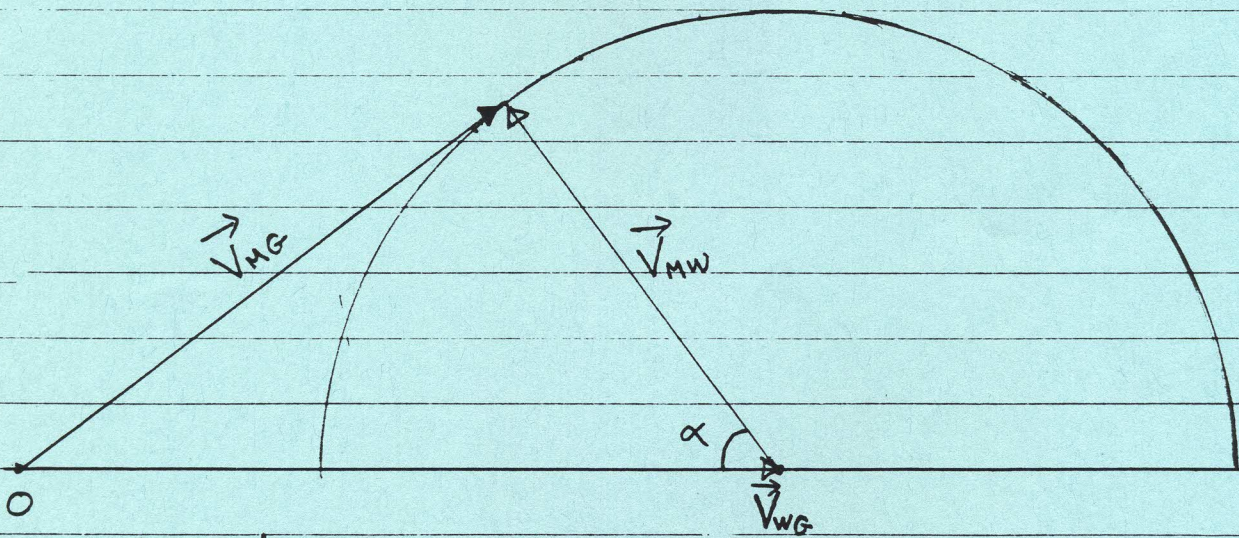


1975 contd.



Any vector whose endpoint is on the semicircle will give all possible directions for  $\vec{V}_{MG}$



The shortest route is when  $\vec{V}_{MG}$  is tangent to the semicircle.

$$\Rightarrow \underline{\underline{\cos \alpha = \frac{V_{MW}}{V_{WG}} = \frac{3}{5}}}$$